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UNIVERSITY OF OKLAHOMA BULLETIN

NEW SERIES NO. 119.

FEBRUARY 1, 1917

UNIVERSITY OF OKLAHOMA BULLETIN

OIL GEOLOGY COURSE

offered during

THE SUMMER SESSION

JUNE 4 TO JULY 31

1917

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NORMAN, OKLAHOMA

FEBRUARY 15, 1917

University of Oklahoma Bulletin, published by the university, is issued semi-monthly. Entered at the postoffice at Norman, as second class matter, under act of congress of August 24, 1912.



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FACULTY

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ANNOUNCEMENT

The Department of Geology of the University of Oklahoma announces a special course in oil geology for the summer session of 1917. The course will begin June 4 and end July 31. This course is designed to meet the insistant demand for a briefer course in oil geology by men who have entered, or intend to inter, the field of oil and gas production, and have not found it possible to pursue the regular work prescribed by the university which leads to the Bachelor of Arts degree, with the major work in geology.

This special course will include the fundamentals of geology that apply most directly to the production of oil and gas. While it is evident that the course is not calculated to produce finished geologist it is intended to give an insight into the methods generally used in locating and developing oil structures. After completing the course one might expect to work intelligently toward the end of locating possible producing structures and be able to interpret properly the results of the specialist and to assist him in detailed work and the more complicated problems.

Early application for admission to the course will be necessary because the facilities of the university make it necessary to limit the size of the class. Admission will be granted in order of application until the maximum number of students is enrolled. The university can not guarantee to give instruction to those who apply for admission later than May 1, 1917.

Each student will contribute \$10 to a special "Field and Apparatus" fund. In addition to this there will be the cost of two trips of several days' duration, which is borne by the individual. This should not exceed \$25 for both trips. For board and room one should allow \$50 to \$60. Note-books, stationery, etc., should not exceed \$5.00.

For further information address,

DR. M. G. MEHL, PROFESSOR OF GEOLOGY,
University of Oklahoma,
Norman, Oklahoma.

DESCRIPTION OF COURSES

SPECIAL COURSE IN OIL GEOLOGY

Geology 51s. An Introduction to the Elements of Oil Geology: This course is intended to satisfy the demands of those who can not give the time required to become proficient in this branch of geology, but desire rather, to become acquainted with the methods employed in the location and development of oil fields. Two trips of several days duration each are a part of the required work. This course may not be used to satisfy freshman prescribed work in science, nor can it be counted for major work. The work is divided into two parts as follows which must be carried together.

PART 1. The Geology of Oil and Gas: The origin and descent of sedimentary rocks; the forces that tend to produce anticlines, synclines, faults, and so forth; theories of the origin, migration, and accumulation of oil and gas. Laboratory and lectures. .

PART 2. The Determination of the Structures of Sedimentary Beds: The use of the alidade, barometer, barograph, level, compass, etc.; the interpretation and construction of topographic maps; the interpretation of well logs and other field data. Lectures and laboratory.
Dr. Mehl. 8 hours.

ADDITIONAL SUMMER COURSES IN GEOLOGY

Geology 1. Elementary Geology: A general introductory course treating of the earth and its materials, the constructive and destructive processes with their effects on the earth, the origin and modification of its surface features and so forth. The course takes up the probable origin of the earth and its past history to a certain extent. The course is conducted by means of recitations, lectures, and laboratory. A field trip to the Arbuckle Mountains is a part of the required work.* Mr. Scudder. 4 hours.

Geology 2. Physiography: The features of the earth's surface with special reference to their origin and the agencies that tend to modify them. The course includes a brief consideration of meteorology. The laboratory work in connection with the course deals largely with the interpretation of topographic maps. A trip to the Arbuckle Mountains is a part of the the required work.* Mr. Scudder. 4 hours.

Geology 3. Elementary Mineralogy and Petrology: An introduction to crystallography, a study of the rock forming minerals and

of their combination into rocks; the origin, classification, physical characteristics, and uses of igneous, metamorphic, and sedimentary rocks. Numerous specimens of rocks and minerals of the various types are studied in the laboratory. Prerequisite, Geology 1. Mr. Williams. 4 hours.

Geology 50s. Economic Geology: A study of the natural materials of geologic interest and economic importance. This includes coal, oil, gas, cements, building stones, fertilizers, abrasives, gems, and the iron, copper, lead, zinc, gold, silver, tin, and some minor minerals which are of importance because of specific uses. Desirable antecedent, Chemistry 1. To be preceded or accompanied by Geology 1. Mr. Williams. 4 hours.

*NOTE: The trips required in Geology 1 and Geology 2 will be taken August 1 to 3, inclusive. The approximate cost to each student will be \$7.00.

For further information about the work offered by the University of Oklahoma, write,

ERRETT R. NEWBY, Secretary-Registrar,
Norman, Oklahoma.